

ADVANCED GCE 2517

INFORMATION AND COMMUNICATION TECHNOLOGY

ICT Systems and Systems Management

WEDNESDAY 23 JANUARY 2008

Morning

Time: 1 hour 30 minutes

Candidates answer on the question paper

Additional materials: No additional materials are required

Candidate Forename				Candidate Surname			
Centre Number				Candidate Number			

INSTRUCTIONS TO CANDIDATES

- Write your name in capital letters, your Centre Number and Candidate Number in the boxes above.
- Use blue or black ink. Pencil may be used for graphs and diagrams only.
- Read each question carefully and make sure that you know what you have to do before starting your answer.
- Answer all the questions.
- Do **not** write in the bar codes.
- Do not write outside the box bordering each page.
- Write your answer to each question in the space provided.
- Additional answer space is available on the lined pages at the back of this booklet. Answers on these pages **must** be clearly numbered.

INFORMATION FOR CANDIDATES

- The number of marks for each question is given in brackets [] at the end of each question or part question.
- The total number of marks for this paper is 90, of which 4
 marks are allocated to the assessment of the quality of written
 communication where an answer requires a piece of extended
 writing.
- No marks will be awarded for using brand names of software packages or hardware.

FOR EXA	AMINER'S USE
1	18
2	31
3	16
4	12
5	9
QWC	4
TOTAL	90

This document consists of 16 printed pages, 2 lined pages and 2 blank pages.

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A travel agency has a shop in a large town.

1	(a)		plain, using examples, why it is important to the agency that information is exchanged urately.
		••••	
			[4]
	(b)	Des	scribe how the agency could use information in
		(i)	decision making
			ro1
			[2]

	(ii)	strategic planning
		[2]
(c)	Des	cribe one type of internal resource of the agency.
		[2]
(d)	The	travel agency employees work with computers.
	(i)	Describe two health problems related to working with ICT.
		[2]

	(ii)	Describe two safety problems related to working with ICT.
		[2]
(e)	The	travel agency uses an integrated office system.
	Des	cribe how the agency could use an integrated office system.
		[4]

(a) Each of the computers in the travel agency is linked using network interface cards (NIC) to a

com	puter which acts as a server.
(i)	Describe the purpose of a NIC.
	[2]
(ii)	Describe the purpose of the server.
	[2]

(b)	Ехр	plain the benefits and drawbacks of using a star network topology.	
(c)		travel agency would like to open another shop in the town.	[1]
		ey need to plan this project carefully and they appoint a project manager.	
	(i)	Identify one tool or technique available to the project manager.	
			[1]

(ii)	Explain the considerations that the project manager must give to the budge deadlines when planning the project.	t and
		[6]

(d)		agency wishes to have touch screens in the shops that can be used by the customers to ose flights and holidays.
	Part	t of the project will be to design the user interface.
	(i)	Describe the contents of the design specification.
		[4]
	(ii)	Explain the reasons for having an effective design for the human-computer interface.

	[6]
(iii)	Describe how the technique of prototyping would help in designing this interface.
(,	2 cooling the transfer and the internation
	roz
	[2]
(iv)	Describe one process modelling technique and one data modelling technique.
	[4]

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3	A new holiday	hooking sy	vstem is to	he created
J	A Hew Hollday	DUUKII IG 3	yolciii io il	De Cleated.

The project manager must decide whether to have a custom-written solution or use off-the-shelf software.

(a)	(i)	Describe custom-written software.
		[1]
	(ii)	Describe off-the-shelf software.
		[1]
(b)	Exp	plain the benefits of using off-the-shelf software for the new holiday booking system.

[6]
The project manager will be deciding on a method of installation for the new system. Describe two different installation methods.

d)	The system will need to be reviewed.	
	Explain the role of a review.	
		· • • •
		[4

	e suc road.	ccessful travel agency is taken over by an international company with a head office
(a)	Des	scribe the impact of this external change on
	(i)	the travel agency staff
		[2]
	(ii)	the system the travel agency uses.
		[2]
(b)	Des	scribe factors which the new company must consider when managing this change.
		[1]

(c)	Representatives are sent to inspect hotels.
	They are able to keep in touch with their head office using a nomadic network.
	Describe the characteristics of a nomadic network.

.....[4]

The c	company is thinking about offering virtual holidays where people never actually lees but apparently "go on holiday" anyway.	eave their
Discu	uss hardware and software developments which would make these possible.	
	Overline of Welline Overseen	
	Quality of Written Commun	lication [4]

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[Total: 90]

If you use these lined pages to complete the answer to any question, the question number must be clearly shown.

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